

brew ethanol concentration data collected under paragraph (d) of this section and according to Equation 1 of this section.

$$\text{BAVOC} = \text{BAE} * \text{CF} + y \quad (\text{Eq. 1})$$

Where:

BAVOC = batch-average concentration of VOC in fermenter exhaust (ppmv measured as propane), calculated for compliance demonstration

BAE = batch-average concentration of brew ethanol in fermenter liquid (percent), measured by CEMS

CF = constant established at performance test and representing the slope of the regression line

y = constant established at performance test and representing the y-intercept of the regression line

**§ 63.2162 When must I conduct subsequent performance tests?**

(a) For each emission limitation in Table 1 to this subpart for which compliance is demonstrated by monitoring brew ethanol concentration and calculating VOC concentration in the fermenter exhaust according to the procedures in § 63.2161, you must conduct an EPA Test Method 25A of 40 CFR part 60, appendix A, performance test and establish a brew-to-exhaust correlation according to the procedures in Table 2 to this subpart and in § 63.2161, at least once every year.

(b) The first subsequent performance test must be conducted no later than 365 calendar days after the initial performance test conducted according to § 63.2160. Each subsequent performance test must be conducted no later than 365 calendar days after the previous performance test. You must conduct a performance test for each 365 calendar day period for the lifetime of the affected source.

**§ 63.2163 If I monitor fermenter exhaust, what are my monitoring installation, operation, and maintenance requirements?**

(a) Each CEMS must be installed, operated, and maintained according to the applicable Performance Specification (PS) of 40 CFR part 60, appendix B.

(b) You must conduct a performance evaluation of each CEMS according to the requirements in § 63.8, according to the applicable Performance Specification of 40 CFR part 60, appendix B, and

according to paragraphs (b)(1) through (4) of this section.

(1) If your CEMS monitor generates a single combined response value for VOC (examples of such detection principles are flame ionization, photoionization, and non-dispersive infrared absorption), but it is not a flame ionization analyzer, you must use PS 8 to show that your CEMS is operating properly.

(i) Use EPA Test Method 25A of 40 CFR part 60, appendix A, to do the relative-accuracy test PS 8 requires.

(ii) Calibrate the reference method with propane.

(iii) Collect a 1-hour sample for each reference-method test.

(2) If you continuously monitor VOC emissions using a flame ionization analyzer, then you must conduct the calibration drift test PS 8 requires, but you are not required to conduct the relative-accuracy test PS 8 requires.

(3) If you continuously monitor VOC emissions using gas chromatography, you must use PS 9 of CFR part 60, appendix B, to show that your CEMS is operating properly.

(4) You must complete the performance evaluation and submit the performance evaluation report before the compliance date that is specified for your source in § 63.2133.

(c) Calibrate the CEMS with propane.

(d) Set the CEMS span at not greater than 5 times the relevant emission limit, with 1.5 to 2.5 times the relevant emission limit being the range considered by us to be generally optimum.

(e) You must monitor VOC concentration in fermenter exhaust at any point prior to dilution of the exhaust stream.

(f) Each CEMS must complete a minimum of one cycle of operation (sampling, analyzing, and data recording) for each successive 30-minute period within each batch monitoring period. Except as specified in paragraph (g) of this section, you must have a minimum of two cycles of operation in a 1-hour period to have a valid hour of data.

(g) The CEMS data must be reduced to arithmetic batch averages computed from two or more data points over each 1-hour period, except during periods when calibration, quality assurance, or